Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

1. - 5. (canceled)

6. (presently amended) A thermoelectric package, comprising:

a microelectronic die having at least one area of which is of a higher heat

dissipation rate than the remainder of the microelectronic die when in operation;

a first electrode proximate said microelectronic die including said higher heat

area;

a dielectric material proximate said first electrode;

a second electrode opposing said first electrode with said dielectric material

disposed therebetween; and

a plurality of nano-wires extending between said first electrode and said

second electrode, wherein the plurality of nano-wires comprise a higher density

proximate to said area of higher heat dissipation rate and a lower density

proximate to said remainder of the microelectronic die.

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7. (canceled)

8. (original) The package of claim 6, wherein said at least one nano-wire

comprises a bismuth containing material.

9. (original) The package of claim 6, wherein said dielectric material

comprises a porous dielectric material.

10. (original) The package of claim 9, wherein said porous dielectric

material comprises porous alumina.

11. (original) The package of claim 6, further comprising a negatively

charged trace electrically connected to said first electrode and a positively

charged trace to said second electrode.

12. - 20. (canceled)

21. (presently amended) An electronic system, comprising:

an external substrate within a housing; and

at least one microelectronic device package attached to said external substrate,

having at least thermoelectric device including:

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a first electrode;

a dielectric material proximate said first electrode:

a second electrode opposing said first electrode with said dielectric

material deposed therebetween; and

at least one nano-wire a plurality of nano-wires extending between said

first electrode and said second electrode, wherein the plurality of nano-wires

comprise a higher density proximate to an area of higher heat dissipation rate of

the microelectronic die when in operation and a lower density proximate to a

remainder of the microelectronic die;

an input device interfaced with said external substrate; and

a display device interfaced with said external substrate.

22. (original) The system of claim 21, wherein said at least one nano-wire

comprises a bismuth containing material.

23. (original) The system of claim 21, wherein said dielectric material

comprises a porous dielectric material.

24. (original) The system of claim 23, wherein said porous dielectric

material comprises porous alumina.

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25. (original) The system of claim 21, wherein said thermoelectric device further comprises a negatively charged trace electrically connected to said first electrode and a positively charged trace to said second electrode.